METHOD AND DEVICE FOR ALTERING THE SEPARATION CHARACTERISTICS... Title:

Inventor(s): Appln. No. Docket # HASSAN, Ahmed A. EL991956481US 66638-43722 1/4

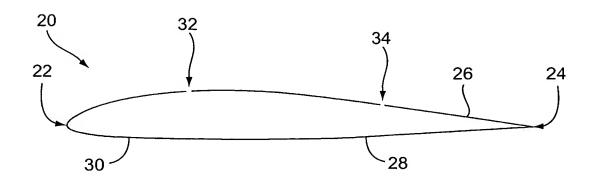


Figure 1

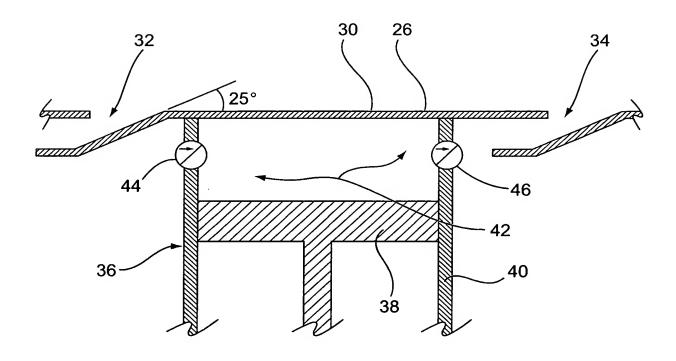
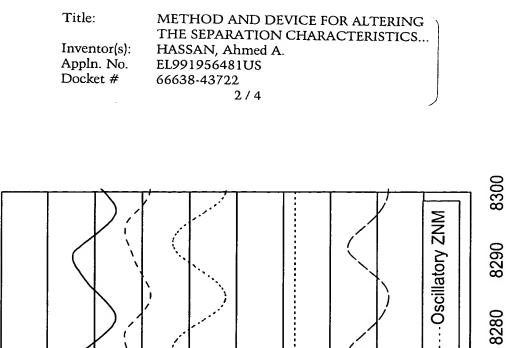


Figure 2



رد خه

 $\alpha = 15 \text{ deg.}$, Re = 2.14 million, Xj/C = 0.30, Mj = 0.30, F = 350 Hz

VR-7 Airfoil: M = 0.30,

1.70

1.65

1.60

1.55

Figure 3

Pulse blowing

Pulse suction

Disclosed Hybrid

baseline airfoil (CL = 1.44)

1.45

1.50

Lift Coefficient, CL

1.40

1.35

1.30

8270

to 8240 8250 8260 Iteration/Time Step Number

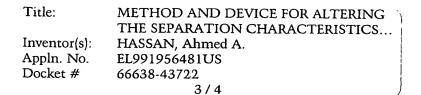
8230

8220

8210

8200

1.25



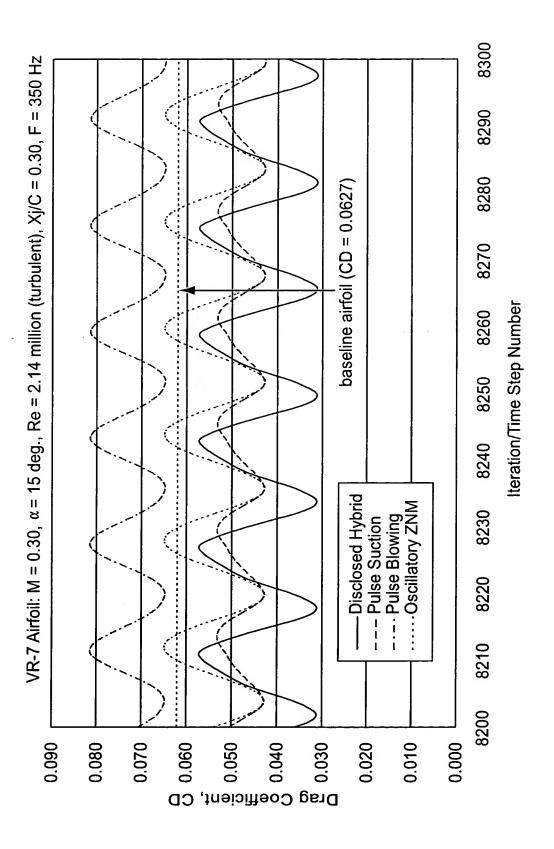


Figure 4

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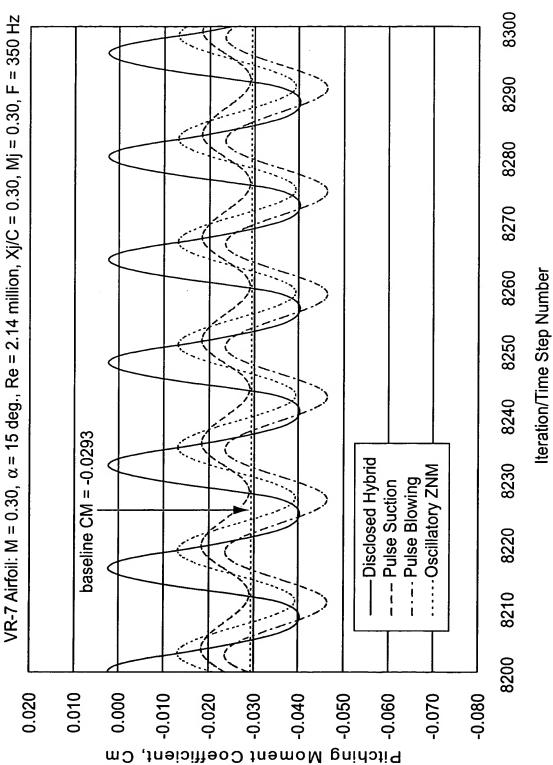


Figure 5